

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P295796

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-35-RDP-UNV-L92765-W2A1-U-3000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2464.0 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

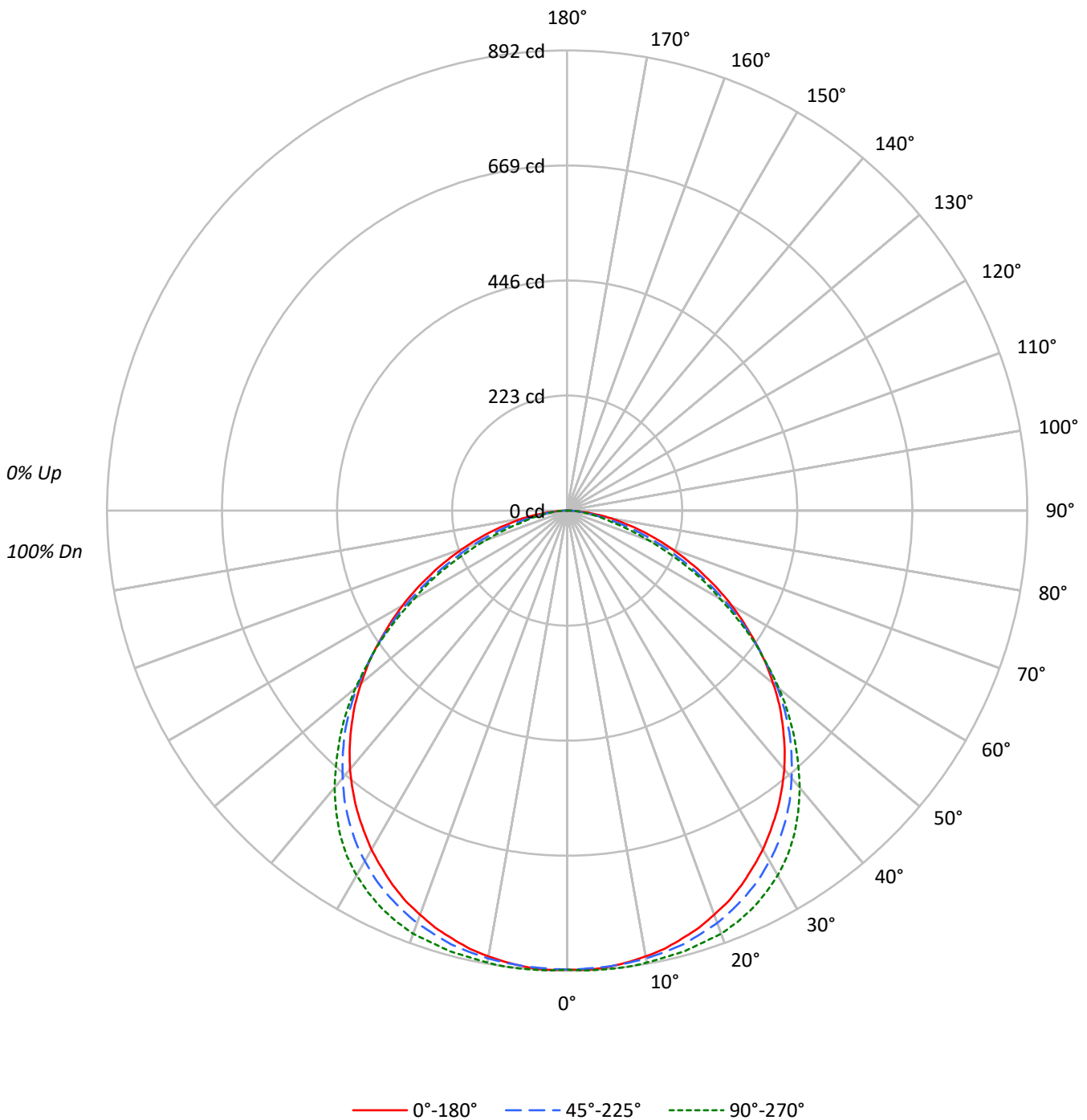
Input Watts (W): 33.294
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2394	2394	2394
5°	2400	2397	2410
10°	2398	2408	2431
15°	2394	2425	2462
20°	2387	2436	2499
25°	2377	2442	2526
30°	2358	2438	2537
35°	2332	2420	2521
40°	2300	2378	2464
45°	2250	2320	2371
50°	2183	2224	2244
55°	2090	2084	2073
60°	1983	1917	1844
65°	1847	1715	1621
70°	1685	1502	1310
75°	1515	1248	979
80°	1347	911	854
85°	1059	756	756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	3.4
10°-20°	246.2	10.0
20°-30°	379.9	15.4
30°-40°	460.8	18.7
40°-50°	467.8	19.0
50°-60°	395.8	16.1
60°-70°	267.8	10.9
70°-80°	129.5	5.3
80°-90°	31.6	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	710.8	28.8
0°-40°	1171.6	47.5
0°-60°	2035.2	82.6
0°-90°	2464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2464.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	889	889	887	891	892	84
15°	859	864	870	880	884	243
25°	800	807	822	843	851	369
35°	710	717	737	760	767	444
45°	591	592	610	622	623	456
55°	446	442	444	444	442	398
65°	290	278	269	258	255	288
75°	146	135	120	104	94	155
85°	34	27	24	24	24	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	889.8	889.8	889.8	889.8	889.8
2.5°	891.1	891.1	888.6	891.1	892.3
5°	888.6	888.6	887.4	891.1	892.3
7.5°	883.7	884.9	884.9	889.8	892.3
10°	877.6	880.0	881.3	888.6	889.8
12.5°	870.3	872.7	876.4	884.9	886.2
15°	859.2	864.1	870.3	880.0	883.7
17.5°	848.2	853.1	860.5	873.9	877.6
20°	833.5	839.7	850.7	866.6	872.7
22.5°	818.8	823.7	837.2	856.8	862.9
25°	800.5	806.6	822.5	843.3	850.7
27.5°	779.7	788.2	805.4	827.4	834.8
30°	758.9	766.2	784.6	809.1	816.4
32.5°	734.4	741.7	762.5	785.8	794.4
35°	709.9	717.3	736.8	760.1	767.4
37.5°	683.0	687.9	708.7	728.3	735.6
40°	654.8	658.5	676.9	696.5	701.3
42.5°	624.2	626.7	643.8	661.0	662.2
45°	591.2	592.4	609.5	621.8	623.0
47.5°	558.1	556.9	571.6	580.2	581.4
50°	521.4	521.4	531.2	536.1	536.1
52.5°	484.7	482.3	487.1	490.8	487.1
55°	445.5	441.9	444.3	444.3	441.9
57.5°	406.4	399.0	400.2	397.8	391.7
60°	368.4	359.9	356.2	347.6	342.7
62.5°	329.3	319.5	312.1	302.3	301.1
65°	290.1	277.8	269.3	258.3	254.6
67.5°	252.1	241.1	228.9	216.6	209.3
70°	214.2	202.0	190.9	175.0	166.5
72.5°	179.9	168.9	155.4	137.1	131.0
75°	145.7	134.6	120.0	104.0	94.2
77.5°	112.6	104.0	88.1	74.7	73.4
80°	86.9	77.1	58.8	55.1	55.1
82.5°	56.3	50.2	41.6	39.2	39.2
85°	34.3	26.9	24.5	24.5	24.5
87.5°	13.5	12.2	12.2	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)